# Learning, Rare Disasters, and Asset Prices\*

Yang K. Lu<sup>†</sup> Michael Siemer<sup>‡</sup>

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#### Abstract

We incorporate joint learning about state and parameter into a consumption-based asset pricing model with rare disasters. Agents are uncertain whether a negative shock signals the onset of a disaster or how much long-term damage a disaster will cause and they update their beliefs over time. The interaction of state and parameter uncertainty increases the total amount of uncertainty and slows learning. Once the two types of uncertainty are both priced in asset prices, their joint effect enables our model to account for the level and volatility of U.S. equity returns without relying on exogenous variation in disaster risk or any realization of disaster shock in the data sample.

Keywords: rare disasters, Bayesian learning, equity premium puzzle, time-varying risk premia, return predictability

JEL: E21, G12, D83

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<sup>&</sup>lt;sup>†</sup>Hong Kong University of Science and Technology. Address: Department of Economics, Clear Water Bay, Kowloon, Hong Kong; phone: +852 2358-7619; Email: yanglu@ust.hk; personal website: http://ihome.ust.hk/~yanglu/.

Board of Governors of the Federal Reserve System. Address: Division of Research and Statistics, Macroeconomic and Quantitative Studies, 20th & Constitution Ave NW, Washington DC 20551; phone: +1 (202) 912-7860; Email: michael-siemer@frb.gov; personal website: http://www.nichael-siemer.com.

# **Learning Rare Disasters And Asset Prices**

Jianjun Gao

**Learning Rare Disasters And Asset Prices:** 

The Enigmatic Realm of Learning Rare Disasters And Asset Prices: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Learning Rare Disasters And Asset Prices** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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